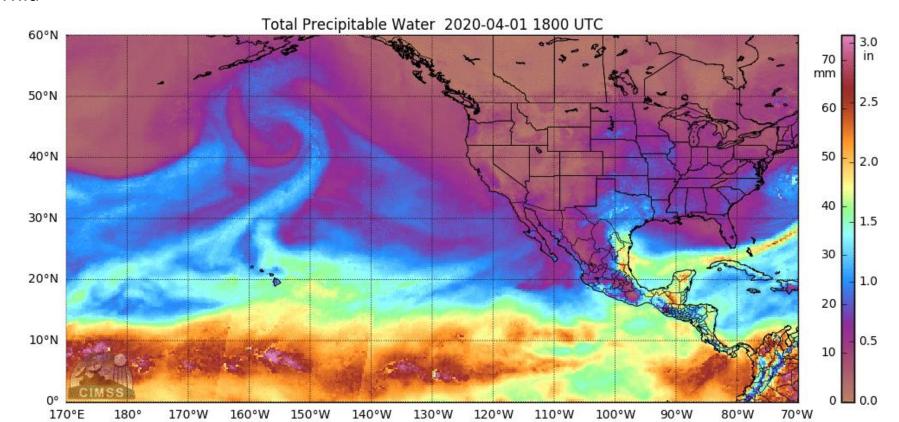
CW3E Post Event Summary: 4–7 April AR



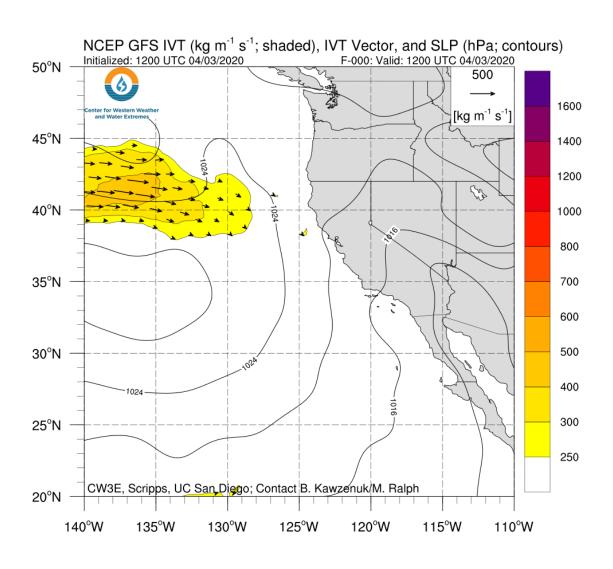
A weak but seasonally anomalous atmospheric river brought precipitation to a large portion of California

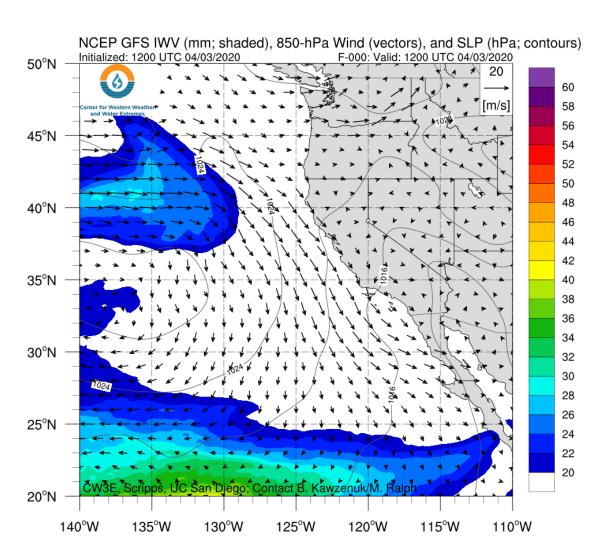
- Numerous coastal locations experienced IVT magnitudes >250 kg m⁻¹ s⁻¹ for <24 hours during this event
- This is the third time since 2000 that San Diego has experienced IVT >250 kg m⁻¹ s⁻¹ during an AR in the first week of April
- Numerous high elevation locations across California received >2 feet of snow in association with this AR
- Lower elevations across much of the state have received 0.75 to 1.5 inches of liquid precipitation
- As the large-scale system begins to weaken and propagate inland, it is forecast to bring additional precipitation to portions of Southern California



For California DWR's AR Program

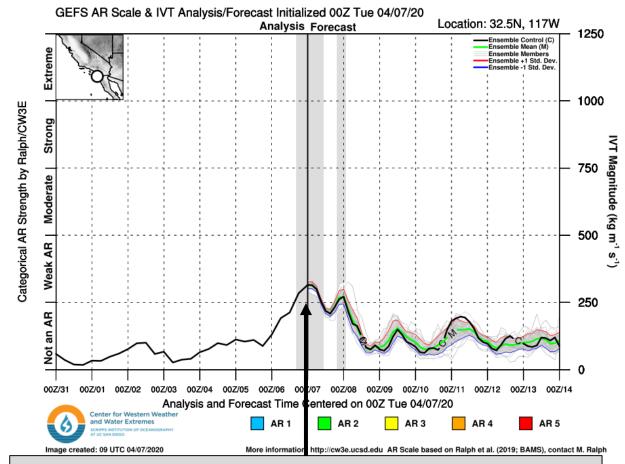




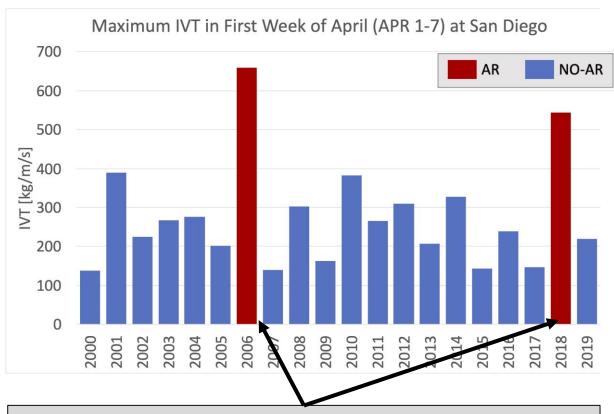


For California DWR's AR Program

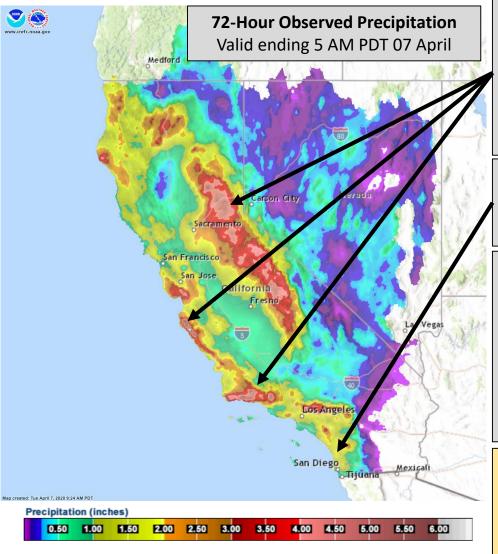




- Coastal San Diego County experienced a maximum IVT magnitude of ~350 kg m⁻¹ s⁻¹ at ~00Z on 7 April
- A secondary peak of AR conditions (~250 kg m⁻¹ s⁻¹) is forecast to impact San Diego County at ~00Z on 8 April
- Since IVT magnitudes dropped below 250 kg m⁻¹ s⁻¹ between the two pulses, AR conditions are not long enough to fall on the AR Scale (Ralph et al. 2019)



Since 2000, San Diego has only experienced IVT magnitudes >250 kg m⁻¹ s⁻¹ in association with an AR during the first week of April two other times (2006 and 2018)

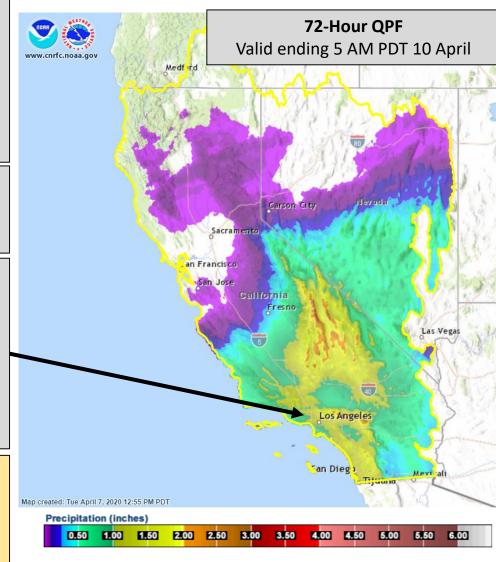


>4 inches of precipitation has fallen over several higher elevation locations of the Sierra Nevada, Coastal, and Transverse Mountains during the previous 72 hours

Other low elevation sites across California have received 0.75 to 1.5 inches

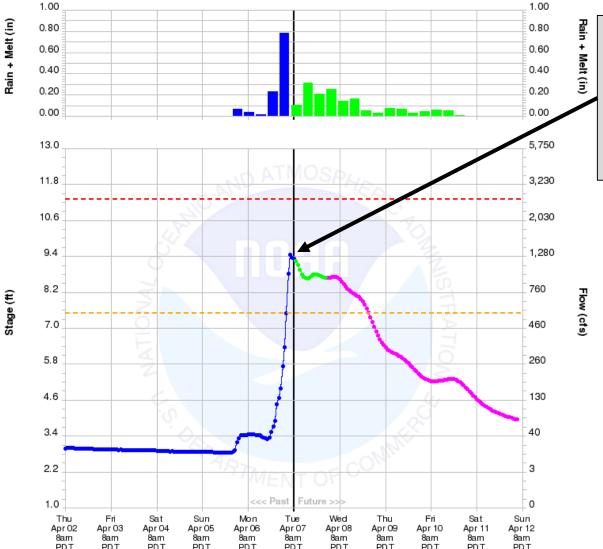
As this larger overall system continues to move inland over Southern California, an additional 0.5 to 2.5 inches of precipitation is forecast by the CNRFC to fall over portions of Central to Southern California

QPE and QPF Products from California-Nevada River Forecast Center. cnrfc.noaa.gov



For California DWR's AR Program





Pacific Local Time

California Department of Water Resources

NOAA / NWS / California Nevada River Forecast Center

Observed • Forecast • Guidance • Monitor - Flood

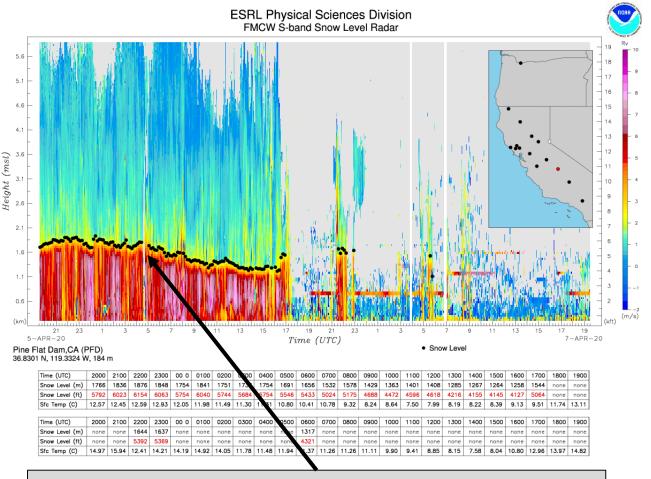
Created: 04/07/2020 at 8:48 AM PDT (FSNC1 Forecast Run Time = 1535Z)

- The San Diego River at Fashion Valley rose to 9.5 feet (above monitor stage) at 6 AM PDT on 7 April
- At a stage height of 8.8 feet Fashion Valley Road is closed due to impacts of the rising river
- A Flash flood watch and Winter Storm Warning are still in effect through tomorrow evening by the NWS San Diego Office

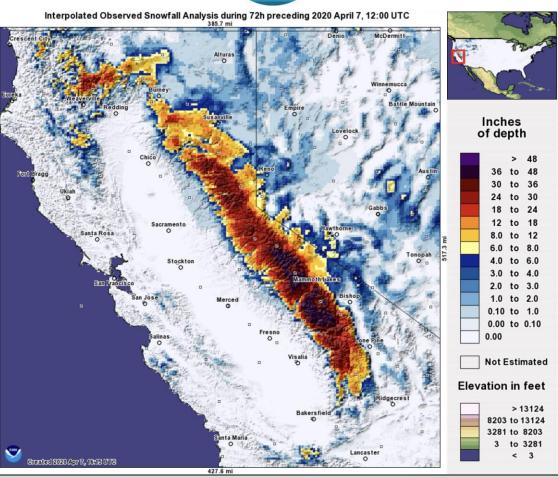


For California DWR's AR Program





The snow level radar at Pine Flat Dam in the foothills of the central Sierra Nevada indicated that snow levels were below 6,000 feet during the majority of this event

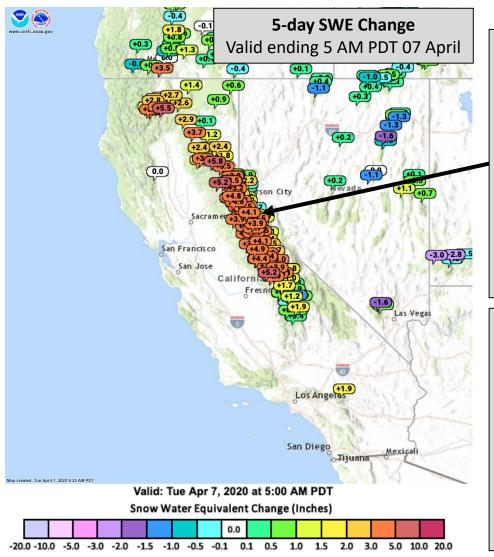


Due to the lower snow levels associated with this AR, a majority of the Sierra Nevada received >24 inches of snow during the previous 72 hours

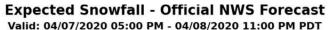
Snowfall products from www.nohrsc.noaa.gov/nsa/

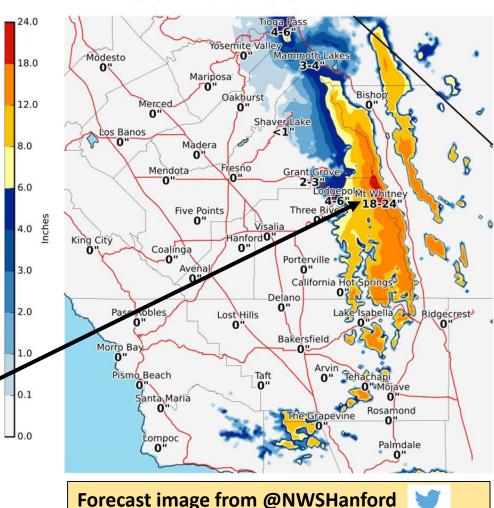
For California DWR's AR Program





- The large snowfall accumulations associated with this AR resulted in high 5day snow water equivalent changes across the Sierra
- Numerous locations received a SWE increase of >4 inches
- continues to impact portions of Central and Southern CA, an additional 18–24 inches of snow could fall over the highest elevations of the Southern Sierra





SWE change map from cnrfc.noaa.gov